

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 20

25071037.m MNDVA.....IVKECWLHKRGEYIKT RPRYFLLKNDGTFIGYKERPDV DCGES LNNFSVAOCOLMKT...PENTIIIRCLO TTIVIERTPHVET PEE...WAAIGCIVADGLK ROE EEPMDFRGGS...SD NSGAEE MEVSLAK RVTIMNEFEYLKLIG
 6753034.m MNDVA.....IVKECWLHKRGEYIKT RPRYFLLKNDGTFIGYKERPDV DCGES LNNFSVAOCOLMKT...PENTIIIRCLO TTIVIERTPHVET PEE...WAAIGCIVADGLK ROE EEPMDFRGGS...SD NSGAEE MEVSLAK RVTIMNEFEYLKLIG
 15100164.r MNDVA.....IVKECWLHKRGEYIKT RPRYFLLKNDGTFIGYKERPDV DCGES LNNFSVAOCOLMKT...PENTIIIRCLO TTIVIERTPHVET PEE...WAAIGCIVADGLK ROE EEPMDFRGGS...SD NSGAEE MEVALAK RVTIMNEFEYLKLIG
 AKT1 MSDVA.....IVKECWLHKRGEYIKT RPRYFLLKNDGTFIGYKERPDV DCGES LNNFSVAOCOLMKT...PENTIIIRCLO TTIVIERTPHVET PEE...WAAIGCIVADGLK KQE EEPMDFRGGS...SD NSGAEE MEVSLAK RVTIMNEFEYLKLIG
 8392888.r MNEVS.....VIKECWLHKRGEYIKT RPRYFLLKSDGFIGYKERPDV DCGES LNNFSVAECOLMKT...PENTIIIRCLO TTIVIERTPHVET PEE...WAAIGCIVADGLK ROE EEPMDFRGGS...SD SSISSEM MEVAVSKR RVTIMNDEDYKLIG
 6680674.m MNEVS.....VIKECWLHKRGEYIKT RPRYFLLKSDGFIGYKERPDV DCGES LNNFSVAECOLMKT...PENTIIIRCLO TTIVIERTPHVET PEE...WAAIGCIVADGLK ROE EEPMDFRGGS...SD SSISSEM MEVAVSKR RVTIMNDEDYKLIG
 AKT2 MNEVS.....VIKECWLHKRGEYIKT RPRYFLLKSDGFIGYKERPDV DCGES LNNFSVAECOLMKT...PENTIIIRCLO TTIVIERTPHVET PEE...WAAIGCIVADGLK ROE EEPMDFRGGS...SD SSISSEM MEVAVSKR RVTIMNDEDYKLIG
 AKT3 MSDVT.....IVKECWLHKRGEYIKN RPRYFLLKTDDGFIGYKERPDV DLP YELNNFSVAKCOLMKT...PENTIIIRCLO TTIVIERTPHVDPDPEEREWTAIAICAVADRLQ ROE EERMNCSPTSQID NIGGEE MDASSTHKK RKTIMNDEDYKLIG
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 13928778.r MSDVT.....IVKECWLHKRGEYIKN RPRYFLLKTDDGFIGYKERPDV DLP YELNNFSVAKCOLMKT...PENTIIIRCLO TTIVIERTPHVDPDPEEREWTAIAICAVADRLQ ROE EERMNCSPTSQID NIGGEE MDASSTHKK RKTIMNDEDYKLIG
 akt-1.AA MSMTSLEPKSRRQEDVVI...ESVLLHKGEHTRN RPRYFMI...NDGAPL...PKCQFFPEPLNDFM...KDAATM...FCKP...NEMVRCLO TTIVIERTFYAESAB...VOR...VIAIBS18KKKG...NQ...EEPLMP...NQPKID...DSEFAGAHA...AIMQPS...SSGGDNC...SIDFRAS...MSIA...D...SEAKR...K...ITME...DF...K...V...G...TPSONTA...GLD...PDR...K...T...L...G
 113r_E

210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 40

25071037.m KGTGKVILVREKATGRYYAMKILKKEVIAKDEVAHITLTENRVLQNSRH FLTALKYSFOTHDRLCFVMYEYANGELFFHLSRE RVFSEDARFYCAETV...SALDYLH...SKNVVRD...LNLMD...DKDGHIKITDF...GLCKEGI...GATMKTFCCT...EYLAP...EVLED...DYGRAVD...WGLG...VVMYEMMC...CRL...FYNQ
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 AKT2 KGTGKVILVREKATGRYYAMKILKKEVIAKDEVAHITLTENRVLQNSRH FLTALKYSFOTHDRLCFVMYEYANGELFFHLSRE RVFTEERARFYCAETV...SALEYLHS...D...VVYRD...L...LMD...DKDGHIKITDF...GLCKEGI...GATMKTFCCT...EYLAP...EVLED...DYGRAVD...WGLG...VVMYEMMC...CRL...FYNQ
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 13928778.r KGTGKVILVREKASGRYYAMKILKKEVIAKDEVAHITLTENRVLQNSRH FLTALKYSFOTHDRLCFVMYEYANGELFFHLSRE RVFTEERARFYCAETV...SALDYLH...CNIVYRD...L...LNLMD...DKDGHIKITDF...GLCKEGI...GATMKTFCCT...EYLAP...EVLED...DYGRAVD...WGLG...VVMYEMMC...CRL...FYNQ
 akt-1.AA KGTGKVILVREKATGRYYAMKILKKEVIAKDEVAHITLTENRVLQNSRH FLTALKYSFOTHDRLCFVMYEYANGELFFHLSRE RPFME...HARFYCAIQVLT...EYLHS...L...DIYRD...L...LNLID...Q...G...Y...I...Q...V...D...P...A...K...R...V...K...P...T...W...L...C...T...EYLAP...TEI...L...S...K...C...Y...N...K...A...D...W...A...G...V...L...I...E...P...Y...F...P...D
 113r_E

410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560

25071037.m DHEKLFELILMEEIRPRTLGCPFAKSSLSCLLKKD...TQLCGGS...DAKEIMQHRF...FANIV QDVY...KKL...PP...F...P...QV...T...SET...D...T...Y...D...E...F...T...A...Q...M...T...I...I...PP...D...D...S... MECVDSERR...HFPOFSY...S...AS...G...T...A...
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 15100164.r DHEKLFELILMEEIRPRTLGCPFAKSSLSCLLKKD...TQLCGGS...DAKEIMQHRF...FANIV QDVY...KKL...PP...F...P...QV...T...SET...D...T...Y...D...E...F...T...A...Q...M...T...I...I...PP...D...D...S... MECVDSERR...HFPOFSY...S...AS...G...T...A...
 AKT1 DHEKLFELILMEEIRPRTLGCPFAKSSLSCLLKKD...TQLCGGS...DAKEIMQHRF...FANIV QDVY...KKL...PP...F...P...QV...T...SET...D...T...Y...D...E...F...T...A...Q...M...T...I...I...PP...D...D...S... MECVDSERR...HFPOFSY...S...AS...G...T...A...
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 AKT2 DHERLFL...L...M...E...E...I...R...P...R...T...L...G...C...P...F...A...K...S...L...L...S...G...L...K...D...P...D...A...K...V...M...E...H...R...F...I...S...I...N... QDVQ...K...L...P...P...P...P...Q...T...S...E...V...D...I...Y...R...D...D...F...T...A...Q...S...T...I...I...P...P...D...Y...D...S... L...D...P...E...I...D...R...H...F...P...O...F...S...Y...S...A...I...R...E...
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 akt-1.AA DHNLFL...L...M...E...E...I...R...P...R...T...L...G...C...P...F...A...K...S...L...L...S...G...L...K...D...P...D...A...K...E...I...R...P...F...V...D...E...A...Y...R...Y...E...I...P...P...Y...P...V...N...Q...S...E...T...D...D...Y...P...T...S...P...V...L...L...P...P...S...R...S...C...A...L...T...V...D...R...O...B...M...O...N...E...T...S...H...N...V...M...G...S...I...N...R...I...E...A...S...E...D...N...E...Y...D...M...G...
 113r_E QP...Q...I...Y...P...K...I...V...S...G...K...V...R...P...S...H...S...S...P...L...D...C...L...R...N...L...Q...P...D...L...K...R...F...G...N...L...R...G...V...N...D...I...K...N...H...R...F...F...P...D...I...L...A...Y...C...R...V...E...A...P...P...I...P...K...P...K...G...P...D...I...S...N...P...D...D...Y...E...E...B...B...R...V...K... T...P...S...O...N...T...A...G...L...D...P...D...R...K...D...K...L...G